



# Napa County Forecast

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phone 530-342-1700

email: [forecaster@westernwx.com](mailto:forecaster@westernwx.com)

Monday September 24, 2012 issued 9:00am

by Forecaster Marc Walsh

**HIGHLIGHTS:** Areas of fog/low clouds this AM, otherwise sunny & a little cooler today. Near normal temps tomorrow & Wed, then warming up later this week... possibly hot over the weekend. **Major cool down** by the middle of next week.

**Short Term Weather Discussion:** A compact upper level low, that was over Central OR yesterday, is dropping down over NV this morning cooling the air mass aloft over CA to some degree. Meanwhile, the marine layer has deepened from about 1000ft to 1500ft in the past 24 hours and marine stratus (low clouds/fog) returned to the North Coast's valleys this morning. Both of these factors suggest some cooling today with highs likely topping off near normal (mainly upper 70s to upper 80s) after a warmer than normal weekend & last Friday. No major changes are expected tomorrow and/or Wednesday as a weak residual trough hangs over California in the wake of the cutoff low slowly exiting eastward across Utah & then the Rockies. Models do indicate a bit more of a northerly gradient down the coast. It remains to be seen whether the northerlies down the coast are strong enough to keep the late night and early morning marine stratus from moving inland. Believe it will keep the stratus out of Napa County, but probably not Sonoma. Models vary whether we'll cool slightly more or warm slightly, so the forecast is for near persistence.

## SHORT TERM FORECAST SPECIFICS

		Weather	Max/Min	Dew Pts	Chc of Rain	Amounts	Winds
<b>TODAY</b>	Pope Valley	Sunny	84-89	40-45	0%	none	Var-NW 3-12
	Northern Napa Valley	Fog/LoClds→Sunny	↓	↓	↓	↓	↓
	Southern Napa Valley	↓	79-83	45-50	↓	↓	Var-SW 3-12
<b>TONIGHT</b>	Pope Valley	Clear	40-45	39-45	0%	none	Var 0-5
	Northern Napa Valley	↓	↓	↓	↓	↓	↓
	Southern Napa Valley	Mostly Clear	43-49	42-48	↓	↓	↓
<b>TUESDAY</b>	Pope Valley	Sunny	84-88	40-45	0%	none	Var-NW 3-12
	Northern Napa Valley	↓	↓	↓	↓	↓	↓
	Southern Napa Valley	Mostly Sunny	79-83	45-50	↓	↓	Var-SW 3-12

**Extended Forecast Discussion:** An impressive Gulf of Alaska storm system is forecast to slam the Alaskan Panhandle later this week while high pressure aloft builds over SoCal. A warming trend should begin for the North Bay Thu-27th, but an embedded offshore low may curb the warming initially. However, a massive upper ridge is forecast to build offshore by Sat-29th (once the big storm well to the north departs) and then expand inland across the Pac NW & NorCal Sun/Mon. Meanwhile, the weak embedded offshore low is forecast to move east over AZ. That combination will generate an offshore circulation over the North & Central State that may result in a 2 day hot spell where temps in Napa County could push well into the 90s (maybe locally in the north to near 100F). However, medium range models show a rapid collapse of this big West Coast Ridge by the middle of next week as a deep trough dives down the coast from western Canada, possibly forming into a large cutoff low off the California Coast by the end of the next week. There's a lot going on here (and a lot that could change before it gets here), but we could be looking at couple of hot days next weekend/early next week followed by dramatic cooling in a matter of days ("Hel lo fall!"). Rain at this point appears unlikely, although can't be ruled out by 3rd-8th.

## EXTENDED RANGE OUTLOOK

	Wed 9/26	Thu 9/27	Fri 9/28	Sat 9/29	Sun 9/30	Trends Mon 10/1 - Wed 10/3
Weather	Sunny	Sunny	Sunny	Sunny	Sunny	Max Temps: Above to below normal
Max Temps	78-87	85-93	88-95	88-97	89-100	Min Temps: Near normal
Min Temps	35-48	39-50	42-53	45-55	45-55	Precipitation: None
Chc of Rain	0%	0%	0%	0%	0%	Wx Pattern: West Coast Ridge collapses rapidly as a large trough digs down the coast: Fall arrives!
Amounts	none	none	none	none	none	
Winds	SW-NW 3-15	E→W 3-12	N-Var 0-10	N-E 0-10	N-E 0-10	

## REGIONAL CLIMATE SUMMARY

16 September 2010	Max/Min	24hr	Precipitation Seas, since 7/1	% normal	Daily ETo	Past week ETo	Today's normals	Today's Records & Year
Oakville (77)	89/46	0.00	0.00	--	0.16	1.14	--	--
Napa County Arpt	83/46	0.00	0.00	0%	--	--	82/52	104 (1964), 39 (1932)
Carneros (109)	82/45	0.00	0.03	--	0.14	1.14	--	--
Santa Rosa Arpt	86/45	0.00	0.00	0%	--	--	81/51	102 (1936), 34 (1915)

**Napa County Campbell Scientific Weather Station Network**  
**Daily Meteorological Summary**  
**Sunday, September 23, 2012**

Station:	Temperature					Avg DewPt °F	Avg RH %	WIND			Precipitation		Solar Rad cal/cm <sup>2</sup>	ETo in.	24-Sep-12 This Morning's Min Temp °F
	Max °F	time occur	Min °F	time occur	Avg °F			Avg mph	Gust mph	Gust Dir	24hr In.	Season In.			
Pope Valley-East	91.8	1336	45.0	308	67.2	35.4	40	2.1	12.8	WSW	0.00	0.00	483	0.18	42.6
Angwin	82.9	1331	63.1	2301	72.0	38.1	30	2.6	11.6	SSE	0.00	0.00	528	0.17	61.2
St. Helena-North	92.3	1451	49.0	551	67.2	44.4	52	1.9	14.3	WNW	0.00	0.00	439	0.13	47.1
St. Helena-South	92.8	1458	46.3	307	66.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	52.9
Rutherford	91.1	1438	45.5	322	65.0	44.9	58	-----	-----	-----	0.00	0.00	-----	-----	46.7
Napa-Southwest	85.1	1431	47.0	218	62.9	51.3	73	2.6	12.6	WSW	0.00	0.00	466	0.15	44.4
Napa-South	83.8	1441	49.4	729	63.2	51.6	71	3.0	12.3	SW	0.00	0.01	359	0.12	47.1

**Napa County Weather Station Network**  
**Daily Biometeorological Summary**  
**Sunday, September 23, 2012**

Station:	Continuous hours		Powdery Mildew Stress* category (pts)	Growing Degree Days T>50°F		Chill Hours T<45°F	min battery volts
	70-85°F	T>95°F		ytd	season**		
Pope Valley-East	4.3	0.0	light (0)	18.0	2951	0.1	12.6
Angwin	5.3	0.0	light (0)	----	---	0.0	12.2
St. Helena-North	2.9	0.0	light (0)	17.3	2788	0.0	12.0
St. Helena-South	2.3	0.0	light (20)	17.3	2906	0.0	11.9
Rutherford	0.7	0.0	---	15.6	2406	0.0	12.2
Napa-Southwest	4.3	0.0	---	---	---	0.0	12.1
Napa-South	7.4	0.0	severe (100)	13.2	---	0.0	12.2

\*\* Note that Seasonal GDD's began 3/1 for St. Helena-South. The rest began 4/1

**Powdery Mildew Stress Outlook:** Many areas will note increasing stress Monday-Wednesday as some cooling develops.

	Napa County		7 Day Outlook		Past Week ( 9/17 - 9/23 ) Summary				
	Evapotranspiration (ETo)		9/24 - 9/30		Daily		7 Day	Period	Percent
	Forecast		Normal	Forecast	Max	Min	Total	Normal	Normal
	Oakville		0.99	1.09	0.18	0.16	1.20	1.07	112%
	Carneros		0.97	1.02	0.18	0.15	1.14	1.05	109%